

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SIXTH SEMESTER – APRIL 2018

AZ 6603– ENVIRONMENTAL BIOTECHNOLOGY

Date: 17-04-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part – A

Answer all the questions:

(10×2=20 marks)

1. What is Lyophilization?
2. Define Xenobiotics.
3. What is phytoremediation?
4. Define Bioaugmentation.
5. Give the composition of Biogas.
6. What is digester?
7. Comment on bioremediation.
8. What are the characteristics of waste water?
9. Polymerase chain reaction.
10. Define Fermentation.

Part – B

Answer any four questions:

(4×10=40 marks)

11. Describe the process of sewage treatment.
12. Write a paragraph on the water treatment plant.
13. Write notes on biosorption and activated sludge.
14. Give an account on aerobic reactors
15. Write a detailed account on biodegradation of xenobiotics.
16. What is biological detoxification? Explain its significance with examples.

Part – C

Answer any two questions:

(2×20=40 marks)

17. Discuss bioleaching with its advantages and disadvantages.
18. Explain the process of denitrification.
19. Write an essay on bioreactors.
20. Explain in detail biogas production.
